

PKO Straddle Sleeves



No special setting tool required
Hundreds of reliable deployments
Double element system

DESCRIPTION

Pragma's PKO retrievable straddle sleeve meets the need for a low-cost, easy to run annular isolation in 2-3/8" to 4-1/2" completions with a 5,000 psi maximum working pressure. The system is designed to be run and set in the well on slickline without any special setting tools and run and pulled using standard GS pulling tools.

The PKO straddle system use Pragma's large bore PKO packers combined with straddle sections for applications such as tubing patches, straddle sleeves and gas lift straddles. The PKO packers include integral tubing slip section that is used to anchor the assembly into the production tubing and element packer.

For shorter straddles up to about 12ft long the Straddle Isolation System can be deployed in two runs. For longer straddle sections tubing lengths can be added.



The PKO Lower Packer is run in hole first and the lower slips are activated by stopping the wireline quickly to shock shear the activation pin, setting down weight then engaging the lower slips with the tubing wall. Jarring down sets the element and then further jarring down sets the upper slips. Picking up the tool string removes the sheared GS Pulling Tool from the lower packer fish neck. A lock ring traps the setting force into the element so that it will not release during subsequent pressure reversals.

Straddle sections as required and the upper packer can be run in hole and set on top of the lower packer.

A variant of the PKO packers used in the straddle sleeve are used for PKB Bridge Plugs and for gas lift systems.

DEPLOYMENT AND OPERATION

- The PKO Straddle Sleeve can be run on a standard slickline tool string using a standard GS Pulling Tool.
- The lower packer's lower slip is set first by shock shearing a light retaining pin.
- Jarring down against the lower slips energises the element and then the upper slips to retain the set element.
- Straddle sections, if required, and the upper packer can then be set against the lower pack which acts as a platform.
- Pulling is carried out again by jarring up on an inner GS profile, using a standard GS pulling on a standard slickline tool string.

APPLICATIONS

- **Leak Isolation:** The retrievable PKO Straddle Sleeve provides a reliable, pressure-tight barrier so that annular leaks can be isolated and production maximised.
- **Gas Lift:** By punching a hole in the tubing above the lower packer an upper packer with an integrated gas lift valve can be installed to enable gas lift by injecting down the A Annulus.

Part Number	Running OD	Tubing Size	Pressure Rating	Bore	Length
238PKBO-XX	1.85"	2 3/8" 4.6 lb/ft	5,000 psi	0.63"	As requested
278PKBO-XX	2.25"	2 7/8" 6.4 lb/ft	5,000 psi	0.85"	As requested
350PKBO-XX	2.72"	3 1/2" 9.2 lb/ft	5,000 psi	1.75"	As requested
450PKBO-XX	3.72"	4 1/2" 12.6 lb/ft	5,000 psi	2.31"	As requested

We offer optional equipment, alternative sizes, pressure ratings, temperature ratings, materials and thread connections.

Please contact us for more information.

FEATURES & BENEFITS

- Low cost.
- Set on slickline with standard setting tools such as GS Pulling Tool, Link Jar and Stem Bar.
- Simple setting procedure for dependable operation.
- 5,000 psi working pressure.